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AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

Claims 1-79. (Canceled).

80. (Currently Amended) A compound of the formula:

$$Cy - Q^{1} - J^{1} - N_{1} \stackrel{4}{=} N - J^{2} - Q^{2} \stackrel{O}{=} \stackrel{H}{=} -OH$$
 (1)

wherein:

the piperazin-1,4-diyl group is optionally substituted;

J¹ is independently a covalent bond or -C(=O)-;

 J^2 is independently -C(=O)- or -S(=O)₂-;

wherein:

Cy is independently:

C₃₋₂₀carbocyclyl,

C₃₋₂₀heterocyclyl, or

C₅₋₂₀aryl;

and is optionally substituted;

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Q<sup>1</sup> is independently:
         a covalent bond;
         C<sub>1-7</sub>alkylene; or
         C<sub>1-7</sub>alkylene-X-C<sub>1-7</sub>alkylene, -X-C<sub>1-7</sub>alkylene, or C<sub>1-7</sub>alkylene-X-,
         wherein X is -O- or -S-;
         and is optionally substituted;
Q<sup>2</sup> is independently:
         C<sub>4-8</sub>alkylene;
         and is optionally substituted;
         and has a backbone length of at least 4 atoms;
         or:
Q<sup>2</sup> is independently:
         C<sub>5-20</sub>arylene-C<sub>1-7</sub>alkylene;
         C<sub>1-7</sub>alkylene-C<sub>5-20</sub>arylene; or,
         C<sub>1-7</sub>alkylene-C<sub>5-20</sub>arylene-C<sub>1-7</sub>alkylene;
         and is optionally substituted;
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and has a backbone length of at least 4 atoms;

or a pharmaceutically acceptable salt, solvate, amide, ester, or ether thereof.

- 81. (Previously Presented) A compound according to claim 80, wherein the piperazin-1,4-diyl group is unsubstituted or substituted at one or more of the 2-, 3-, 5-, and 6-positions with C_{1-4} alkyl.
- 82. (Previously Presented) A compound according to claim 80, wherein: J^1 is a covalent bond; and J^2 is -C(=O)-.
- 83. (Previously Presented) A compound according to claim 80, wherein: J^1 is C(=O)-; and J^2 is -C(=O)-.
- 84. (Previously Presented) A compound according to claim 80, wherein: J^1 is a covalent bond; and J^2 is $-S(=O)_2$ -.

Claim 85. (Canceled)

Claim 86. (Canceled)

- 87. (Previously Presented) A compound according to claim 80, wherein Q^1 is independently C_{1-7} alkylene, and is optionally substituted.
- 88. (Previously Presented) A compound according to claim 80, wherein: Q^1 is independently C_{1-7} alkylene, and is optionally substituted; J^1 is independently a covalent bond; J^2 is independently -C(=O)-.

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- 89. (Previously Presented) A compound according to claim 80, wherein: Q^1 is independently C_{1-7} alkylene, and is optionally substituted; J^1 is independently -C(=O)-; J^2 is independently -C(=O)-.
- 90. (Previously Presented) A compound according to claim 80, wherein: Q^1 is independently C_{1-7} alkylene, and is optionally substituted; J^1 is independently a covalent bond; J^2 is independently -S(=O)₂-.
- 91. (Previously Presented) A compound according to claim 80, wherein: Q^1 is independently C_{1-7} alkylene, and is optionally substituted; J^1 is independently -C(=O)-; J^2 is independently $-S(=O)_2$ -.
- 92. (Previously Presented) A compound according to claim 80, wherein Q^1 is independently C_{1-3} alkylene, and is optionally substituted.
- 93. (Previously Presented) A compound according to claim 80, wherein Q^1 is independently: C_{1-7} alkylene-X- C_{1-7} alkylene, -X- C_{1-7} alkylene, or C_{1-7} alkylene-X-; wherein X is -O- or -S-; and is optionally substituted.
- 94. (Previously Presented) A compound according to claim 80, wherein Q^1 is independently : C_{1-3} alkylene-X- C_{1-3} alkylene, -X- C_{1-3} alkylene, or C_{1-3} alkylene-X-; wherein X is -O- or -S-; and is optionally substituted.

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95. (Previously Presented) A compound according to claim 80, wherein substituents on Q^1 , if present, are independently: halo, hydroxy, ether, C_{5-20} aryl, acyl, amino, amido, acylamido, or oxo.

96. (Previously Presented) A compound according to claim 80, wherein substituents on Q¹, if present, are independently: -F, -Cl, -Br, -I, -OH, -OMe, -OEt, -OPr, -Ph, -NH₂, -CONH₂, or =O.

97. (Previously Presented) A compound according to claim 80, wherein Q¹, if other than a covalent bond, is unsubstituted.

98. (Previously Presented) A compound according to claim 80, wherein Q¹ is independently a covalent bond.

99. (Previously Presented) A compound according to claim 80, wherein: Q^1 is independently a covalent bond; J^1 is independently a covalent bond; J^2 is independently -C(=O)-.

100. (Previously Presented) A compound according to claim 80, wherein: Q^1 is independently a covalent bond; J^1 is independently -C(=O)-; J^2 is independently -C(=O)-

101. (Previously Presented) A compound according to claim 80, wherein: Q^1 is independently a covalent bond; J^1 is independently a covalent bond; J^2 is independently $-S(=O)_2$ -.

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102. (Previously Presented) A compound according to claim 80, wherein: Q^1 is independently a covalent bond; J^1 is independently -C(=O)-; J^2 is independently -S(=O)₂-.

103. (Previously Presented) A compound according to claim 80, wherein Q^2 is independently: C_{4-8} alkylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

104. (Previously Presented) A compound according to claim 80, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.

105. (Previously Presented) A compound according to claim 88, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.

106. (Previously Presented) A compound according to claim 89, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.

107. (Previously Presented) A compound according to claim 90, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.

108. (Previously Presented) A compound according to claim 91, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.

109. (Previously Presented) A compound according to claim 99, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.

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110. (Previously Presented) A compound according to claim 100, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.

- 111. (Previously Presented) A compound according to claim 101, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.
- 112. (Previously Presented) A compound according to claim 102, wherein Q^2 is independently a saturated aliphatic C_{4-8} alkylene group.
- 113. (Previously Presented) A compound according to claim 80, wherein Q^2 is independently a saturated linear C_{4-8} alkylene group.
- 114. (Previously Presented) A compound according to claim 80, wherein Q^2 is independently selected from: -(CH₂)₅-; -(CH₂)₆-; -(CH₂)₇-; -(CH₂)₈-;
- 115. (Previously Presented) A compound according to claim 80, wherein Q^2 is independently selected from: -(CH₂)₅-, -(CH₂)₆-, -(CH₂)₇-, and -(CH₂)₈-.
- 116. (Previously Presented) A compound according to claim 80, wherein Q^2 , is independently: $C_{5\text{-}20}$ arylene- $C_{1\text{-}7}$ alkylene; $C_{1\text{-}7}$ alkylene- $C_{5\text{-}20}$ arylene;

C₁₋₇alkylene-C₅₋₂₀arylene-C₁₋₇alkylene; or, and is optionally substituted; and has a backbone length of at least 4 atoms.

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Claim 117. (Canceled)

Claim 118. (Canceled)

119. (Previously Presented) A compound according to claim 80, wherein Q^2 , is independently: C_{5-6} arylene- C_{1-7} alkylene; C_{1-7} alkylene- C_{5-6} arylene- C_{1-7} alkylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

120. (Previously Presented) A compound according to claim 80, wherein Q^2 , is independently: phenylene- C_{1-7} alkylene; C_{1-7} alkylene-phenylene; or, C_{1-7} alkylene-phenylene- C_{1-7} alkylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

121. (Previously Presented) A compound according to claim 80, wherein Q², is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene;

phenylene-ethylene; phenylene-ethenylene; methylene-phenylene-methylene; methylene-phenylene-ethylene; methylene-ethenylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

122. (Previously Presented) A compound according to claim 88, wherein Q², is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene; phenylene-ethylene; methylene-phenylene-methylene; methylene-phenylene-ethylene; ethylene-phenylene-

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methylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethenylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

123. (Previously Presented) A compound according to claim 89, wherein Q², is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene; phenylene-ethylene; phenylene-ethenylene; methylene-phenylene-methylene; methylene-phenylene-ethylene; methylene-phenylene-ethenylene; ethylene-phenylenemethylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethenylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

124. (Previously Presented) A compound according to claim 90, wherein Q². is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene; phenylene-ethylene; phenylene-ethenylene; methylene-phenylene-methylene; methylene-phenylene-ethylene; methylene-phenylene-ethenylene; ethylene-phenylenemethylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethenylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

125. (Previously Presented) A compound according to claim 91, wherein Q². is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene; phenylene-ethylene; phenylene-ethenylene; methylene-phenylene-methylene; methylene-phenylene-ethylene; methylene-phenylene-ethenylene; ethylene-phenylenemethylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethenylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

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126. (Previously Presented) A compound according to claim 99, wherein Q², is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene; phenylene-ethylene; phenylene-ethenylene; methylene-phenylene-methylene; methylene-phenylene-ethylene; methylene-phenylene-ethenylene; ethylene-phenylenemethylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethenylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

127. (Previously Presented) A compound according to claim 100, wherein Q², is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene; phenylene-ethylene; phenylene-ethenylene; methylene-phenylene-methylene; methylene-phenylene-ethylene; methylene-phenylene-ethenylene; ethylene-phenylenemethylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethenylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

128. (Previously Presented) A compound according to claim 101, wherein Q², is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene; phenylene-ethylene; phenylene-ethenylene; methylene-phenylene-methylene; methylene-phenylene-ethylene; methylene-phenylene-ethenylene; ethylene-phenylenemethylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethenylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

129. (Previously Presented) A compound according to claim 102, wherein Q², is independently: methylene-phenylene; ethylene-phenylene; phenylene-methylene; phenylene-ethylene; phenylene-ethenylene; methylene-phenylene-methylene;

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methylene-phenylene- ethylene; methylene-phenylene-ethenylene; ethylene-phenylenemethylene; ethylene-phenylene-ethylene; ethylene-phenylene-ethenylene; and is optionally substituted; and has a backbone length of at least 4 atoms.

130. (Previously Presented) A compound according to claim 120, wherein the phenylene linkage is meta or para.

131. (Previously Presented) A compound according to claim 120, wherein the phenylene linkage is meta.

132. (Previously Presented) A compound according to claim 120, wherein the phenylene linkage is para.

133. (Previously Presented) A compound according to claim 80, wherein Q², is independently:

134. (Previously Presented) A compound according to claim 80, wherein Q², is independently:

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135. (Previously Presented) A compound according to claim 80, wherein Q^2 is substituted.

136. (Previously Presented) A compound according to claim 80, wherein substituents on Q^2 , if present, are independently selected from: (1) ester; (2) amido; (3) acyl; (4) halo; (5) hydroxy; (6) ether; (7) substituted or unsubstituted C_{1-7} alkyl (8) substituted or unsubstituted C_{5-20} aryl; (9) sulfonyl; (10) sulfonamido; (11) amino; (12) morpholino; (13) nitro; and (14) cyano.

137. (Previously Presented) A compound according to claim 80, wherein substituents on Q², if present, are independently selected from:

(1) -C(=O)OMe, -C(=O)OEt, -C(=O)O(Pr), -C(=O)O(iPr), -C(=O)O(nBu), -C(=O)O(sBu), -C(=O)O(iBu), -C(=O)O(tBu), -C(=O)O(nPe); -C(=O)OCH₂CH₂OH, -C(=O)OCH₂CH₂OMe, -C(=O)OCH₂CH₂OEt;

$$(2) \ -(C=O)NH_2, \ -(C=O)NMe_2, \ -(C=O)NEt_2, \ -(C=O)N(iPr)_2, \ -(C=O)N(CH_2CH_2OH)_2;$$

(5) -OH;

(6) -OMe, -OEt, -O(iPr), -O(tBu), -OPh; -OCF₃, -OCH₂CF₃; -OCH₂CH₂OH, -OCH₂CH₂OMe, -OCH₂CH₂OEt; -OCH₂CH₂NH₂, -OCH₂CH₂NMe₂, -OCH₂CH₂N(iPr)₂; -OPh, -OPh-Me, -OPh-OH, -OPh-OMe, O-Ph-F, -OPh-Cl, -OPh-Br, -OPh-I;

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- (7) -Me, -Et, -nPr, -iPr, -nBu, -iBu, -sBu, -tBu, -nPe; -CF₃, -CH₂CF₃; -CH₂CH₂OH, -CH₂CH₂OMe, -CH₂CH₂OEt; -CH₂CH₂NH₂, -CH₂CH₂NMe₂, -CH₂CH₂N(iPr)₂; -CH₂-Ph;
 - (8) -Ph, -Ph-Me, -Ph-OH, -Ph-OMe, -Ph-F, -Ph-Cl, -Ph-Br, -Ph-I;
 - (9) -SO₂Me, -SO₂Et, -SO₂Ph;
 - (10) -SO₂NH₂, -SO₂NMe₂, -SO₂NEt₂;
 - (11) -NMe₂, -NEt₂;
 - (12) morpholino;
 - (13) -NO₂; and
 - (14) -CN.
- 138. (Previously Presented) A compound according to claim 80, wherein Q^2 is unsubstituted.
- 139. (Previously Presented) A compound according to claim 80, wherein Q² has a backbone of at least 5 atoms.
- 140. (Previously Presented) A compound according to claim 80, wherein Q² has a backbone of at least 6 atoms.
- 141. (Previously Presented) A compound according to claim 80, wherein Cy is independently C₃₋₂₀carbocyclyl; and is optionally substituted.

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142. (Previously Presented) A compound according to claim 80, wherein Cy is

independently C₃₋₂₀carbocyclyl derived from one of the following: cyclopropane,

cyclobutane, cyclopentane, cyclohexane, cyclopentene, cyclohexene, norbornane,

adamantane, cyclopentanone, and cyclohexanone; and is optionally substituted.

143. (Previously Presented) A compound according to claim 80, wherein Cy is

independently C₃₋₂₀heterocyclyl; and is optionally substituted.

144. (Previously Presented) A compound according to claim 80, wherein Cy is

independently C₃₋₂₀heterocyclyl derived from one of the following: piperidine, azepine,

tetrahydropyran, morpholine, azetidine, piperazine, imidazoline, piperazinedione, and

oxazolinone; and is optionally substituted.

145. (Previously Presented) A compound according to claim 80, wherein Cy is

independently C₅₋₂₀ aryl; and is optionally substituted.

146. (Previously Presented) A compound according to claim 80, wherein Cy is

independently C₅₋₂₀carboaryl or C₅₋₂₀heteroaryl; and is optionally substituted.

147. (Previously Presented) A compound according to claim 105, wherein Cy is

independently C₅₋₂₀carboaryl or C₅₋₂₀heteroaryl; and is optionally substituted.

148. (Previously Presented) A compound according to claim 106, wherein Cy is

independently C₅₋₂₀carboaryl or C₅₋₂₀heteroaryl; and is optionally substituted.

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149. (Previously Presented) A compound according to claim 107, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.

- 150. (Previously Presented) A compound according to claim 108, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.
- 151. (Previously Presented) A compound according to claim 109, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.
- 152. (Previously Presented) A compound according to claim 110, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.
- 153. (Previously Presented) A compound according to claim 111, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.
- 154. (Previously Presented) A compound according to claim 112, wherein Cy is independently C₅₋₂₀carboaryl or C₅₋₂₀heteroaryl; and is optionally substituted.
- 155. (Previously Presented) A compound according to claim 122, wherein Cy is independently C₅₋₂₀carboaryl or C₅₋₂₀heteroaryl; and is optionally substituted.
- 156. (Previously Presented) A compound according to claim 123, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.
- 157. (Previously Presented) A compound according to claim 124, wherein Cy is independently C₅₋₂₀carboaryl or C₅₋₂₀heteroaryl; and is optionally substituted.

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158. (Previously Presented) A compound according to claim 125, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.

159. (Previously Presented) A compound according to claim 126, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.

160. (Previously Presented) A compound according to claim 127, wherein Cy is independently C_{5-20} carboaryl or C_{5-20} heteroaryl; and is optionally substituted.

161. (Previously Presented) A compound according to claim 128, wherein Cy is independently C₅₋₂₀carboaryl or C₅₋₂₀heteroaryl; and is optionally substituted.

162. (Previously Presented) A compound according to claim 129, wherein Cy is independently C₅₋₂₀carboaryl or C₅₋₂₀heteroaryl; and is optionally substituted.

163. (Previously Presented) A compound according to claim 80, wherein Cy is independently C₅₋₂₀aryl derived from one of the following: benzene, pyridine, furan, indole, pyrrole, imidazole, pyrimidine, pyrazine, pyridizine, naphthalene, quinoline, indole, benzimidazole, benzothiofuran, fluorene, acridine, and carbazole; and is optionally substituted.

164. (Previously Presented) A compound according to claim 80, wherein Cy is independently an optionally substituted phenyl group.

165. (Previously Presented) A compound according to claim 80, wherein Cy is optionally substituted with one or more substituents selected from:

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166. (Previously Presented) A compound according to claim 80, wherein Cy is optionally substituted with one or more substituents selected from:

(14) cyano.

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- (1) -C(=O)OMe, -C(=O)OEt, -C(=O)O(Pr), -C(=O)O(iPr), -C(=O)O(nBu), -C(=O)O(sBu), -C(=O)O(iBu), -C(=O)O(tBu), -C(=O)O(nPe); -C(=O)OCH₂CH₂OH, -C(=O)OCH₂CH₂OMe, -C(=O)OCH₂CH₂OEt;
 - (2) $-(C=O)NH_2$, $-(C=O)NMe_2$, $-(C=O)NEt_2$, $-(C=O)N(iPr)_2$, $-(C=O)N(CH_2CH_2OH)_2$;
 - (3) -(C=O)Me, -(C=O)Et, -(C=O)-cHex, -(C=O)Ph;
 - (4) -F, -Cl, -Br, -I;
 - (5) -OH;
- (6) -OMe, -OEt, -O(iPr), -O(tBu), -OPh; -OCF₃, -OCH₂CF₃; -OCH₂CH₂OH, -OCH₂CH₂OMe, -OCH₂CH₂OEt; -OCH₂CH₂NH₂, -OCH₂CH₂NMe₂, -OCH₂CH₂N(iPr)₂; -OPh, -OPh-Me, -OPh-OH, -OPh-OMe, O-Ph-F, -OPh-Cl, -OPh-Br, -OPh-I;
- (7) -Me, -Et, -nPr, -iPr, -nBu, -iBu, -sBu, -tBu, -nPe; -CF₃, -CH₂CF₃; -CH₂CH₂OH, -CH₂CH₂OMe, -CH₂CH₂OEt; -CH₂CH₂NH₂, -CH₂CH₂NMe₂, -CH₂CH₂N(iPr)₂; -CH₂-Ph;
 - (8) -Ph, -Ph-Me, -Ph-OH, -Ph-OMe, -Ph-F, -Ph-Cl, -Ph-Br, -Ph-I;
 - (9) -SO₂Me, -SO₂Et, -SO₂Ph;
 - (10) -SO₂NH₂, -SO₂NMe₂, -SO₂NEt₂;
 - (11) -NMe₂, -NEt₂;
 - (12) morpholino;

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(13) -NO₂; and

(14) -CN.

167. (Currently Amended) A compound according to claim 80, selected from the following compounds, and pharmaceutically acceptable salts, solvates, amides, esters, and ethers thereof:

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$$\bigvee_{\mathsf{F}} \mathsf{N} - \bigvee_{\mathsf{O}} \mathsf{N} - \bigvee_{\mathsf{O}} \mathsf{N} - \bigvee_{\mathsf{O}} \mathsf{N} - \bigvee_{\mathsf{O}} \mathsf{N} = \mathsf{O}$$

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168. (Previously Presented) A composition comprising a compound according to claim 80 and a pharmaceutically acceptable carrier.

Claims 169-173. (Canceled)